PART NO. WNSA60-EN-00

HITACHI

Reliable solutions

Workshop Manual

ZW120-6

Wheel Loader

Service Manual consists of the following separate Part No.

Technical Manual (Operational Principle) : Vol. No.TNSA60-EN

Technical Manual (Troubleshooting) : Vol. No.TNSA60-EN

Workshop Manual : Vol. No.WNSA60-EN

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Safety Alert Symbol and Headline Notations

In this manual, the following safety alert symbol and signal words are used to alert the reader to the potential for personal injury of machine damage.

⚠ This is the safety alert symbol. When you see this symbol, be alert to the potential for personal injury.
Never fail to follow the safety instructions prescribed along with the safety alert symbol.
The safety alert symbol is also used to draw attention to component/part weights.
To avoid injury and damage, be sure to use appropriate lifting techniques and equipment when lifting heavy parts.

⚠ **CAUTION:**
Indicates potentially hazardous situation which could, if not avoided, result in personal injury or death.

IMPORTANT:
Indicates a situation which, if not conformed to the instructions, could result in damage to the machine.

NOTE:
Indicates supplementary technical information or know-how.

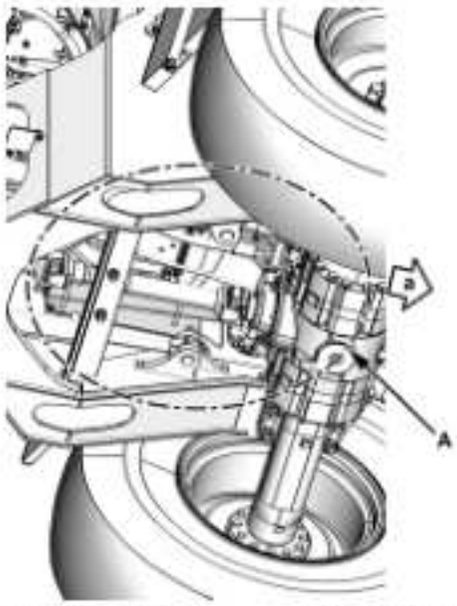
Units Used

SI Units (International System of Units) are used in this manual.

A table for conversion from SI units to other system units is shown below for reference purposes.

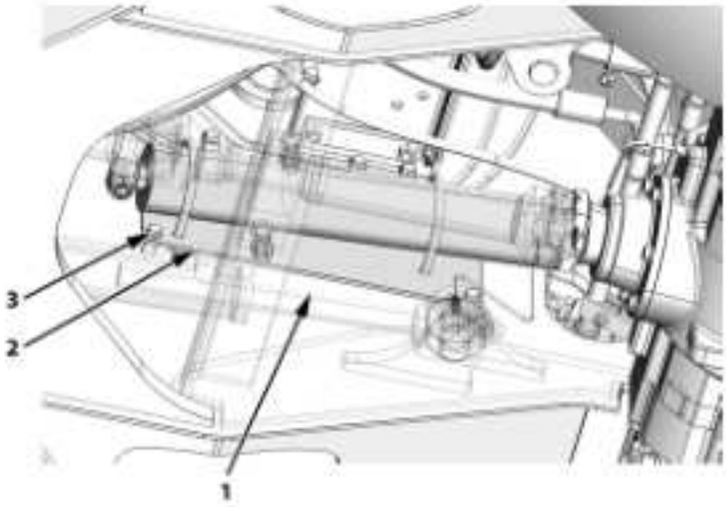
Quantity	To Convert From	Into	Multiply By
Length	mm	in	0.03937
	mm	ft	0.003281
Volume	L	US gal	0.2642
	L	US qt	1.057
	m^3	yd^3	1.308
Weight	kg	lb	2.205
Force	N	kgf	0.10197
	N	lbf	0.2248
Torque	N-m	kgf-m	0.10197
Pressure	MPa	kgf/cm^2	10.197
	MPa	psi	145.0
Power	kW	PS	1.360
	kW	HP	1.341
Temperature	°C	°F	°C×1.8+32
Velocity	km/h	mph	0.6214
	min^{-1}	rpm	1.0
Flow rate	L/min	US gpm	0.2642
	mL/rev	cc/rev	1.0

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a- Vehicle Front Side WNSAA0-03-16-053

Detail A



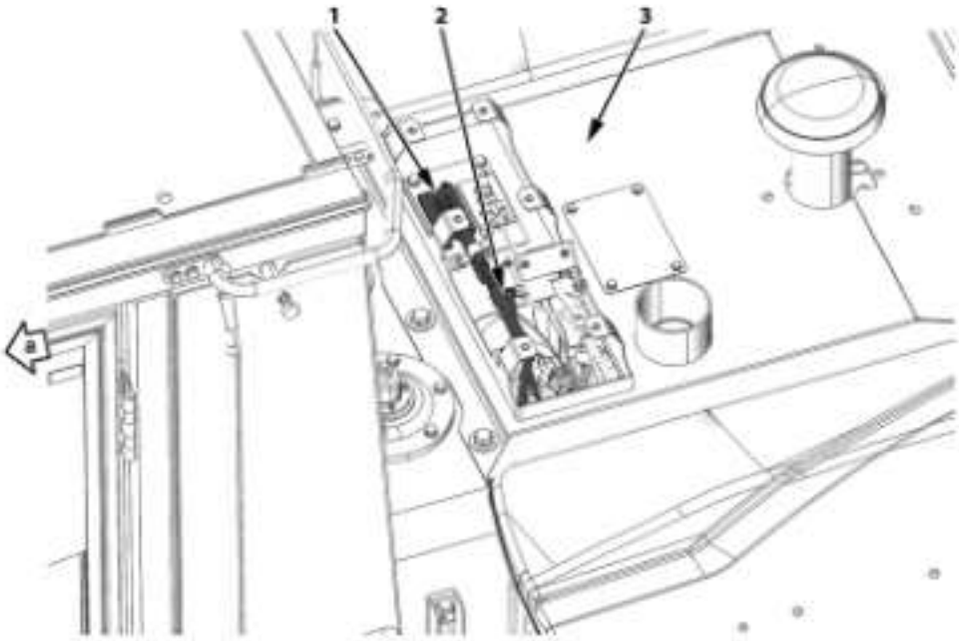
WNSAA0-03-16-054

CAUTION: Remove the bracket (2) assembly while holding it. Do not drop the bracket (2) assembly.

6. Remove bolts, washers (3) (4 used). Remove the bracket (2) assembly from front frame (1).

: 17 mm

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a- Vehicle Front Side

WNSAA0-03-18-050

29. Pull out harness (2) and sensor unit (1) on engine cover (3).

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Tire Size Used

NOTE: The machine may vibrate while driving depending on the tread pattern of tires. This is a sympathetic vibration due to tread pattern, not a malfunction.

Tire size	Tire structure	Pattern	Standard tire pressure	Tire pressure adjustment range
18.4-24-10PR	Bias tire	L2	216 kPa (31 PSI)	216 kPa to 266 kPa (31 to 39 PSI)
17.5-25-12PR	Bias tire	L2	350 kPa (51 PSI)	350 kPa to 400 kPa (51 to 58 PSI)
18.4-24-10PR	Bias tire (Snow)	L2	220 kPa (32 PSI)	220 kPa to 270 kPa (32 to 39 PSI)

IMPORTANT: For vehicles that drive on public roads, set the tire pressure to the standard tire pressure.

Adjust the tire pressure according to the work.

- Traveling on public roads — Standard tire pressure
- Loading and digging work on normal road surfaces — Slightly higher within the tire pressure adjustment range
- Heavy digging work — High within the tire pressure adjustment range
- Work on soft ground / sand — Slightly lower within the tire pressure adjustment range

NOTE: When the tire pressure is high, the fuel consumption will be improved and the maximum speed will be improved slightly within a range of 15 km/h. When the tire pressure is low, the grounding and cushioning properties will be improved.

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